

TOBACCO INDUSTRY RESEARCH COMMITTEE
350 FIFTH AVENUE NEW YORK 1, N. Y.
Expendable Supplies
Equipment
Application For Research Grant

1357

14,141.20

Salary to be used for additional help and not

for the investigator.

Date: January 11, 1955

7. Anticipated Duration of Work

1. Name of Investigator

J. Manly Stallworth, M.D.

8. Facilities and Staff Available

1. Title: The Effects of Cigarette Smoke on the Peripheral Vascular System, funds.

Two medical fellows in Cardiology - one full time, one part time -

available to run the comparative studies.

3. Institution: Cardiovascular Dept., Medical College of South Carolina

& Address: 16 Lucas Street, Charleston, South Carolina

4. Project or Subject: A comparison of the effects of smoking cigarettes with those of
subcutaneous injections of adrenalin chloride on the peripheral vascular
system of normal males in an effort to determine what the effects of smoking
a cigarette is equivalent to in terms of a known vasoconstricting agent.

10. Additional Information (including relation of work to other projects and other grants of money)

5. Detailed Plan of Procedure (Use reverse side if additional space is needed): Comparison is to be made of the
effects of smoking two standard, popular brand, non-filtered, cigarettes at
a natural rate, and a standard dose (amount to be determined) of sub-cutaneous
adrenalin chloride on the peripheral vascular system of human
subjects. Subjects will be normal male medical students or members of
our hospital house staff, the majority of whom will be habitual smokers
but will include non-smokers for comparison. Utilized for this compari-
son will be pulse rate, blood pressure, skin temperature, and plethysmo-
graphic determination of pulse volume. The skin temperature and the
pulse volume are to be obtained from the digits of both the upper and
lower extremities. Serial determinations are to be made on cigarette
fasting subjects before, during and after both the smoking and adrenalin
administration, with a minimum of twenty-four hours separating the two.

Prof. active, not at all
Prof. Westerby work @ M.C.
class 6, 7, 8
Revised in 7/66 file

Signature: J. Manly Stallworth
Director of Projects

J. Manly Stallworth, M.D.

Business Officer of the Research

M. M. Faizley

1003541245

6. Budget Plan:

Salaries	\$3,600.00*
Expendable Supplies	200.00
Permanent Equipment	0.00
Overhead (8% total grant)	304.00
Other	0.00
Total	\$4,104.00

*Salary to be used for additional help and not for the investigator.

7. Anticipated Duration of Work:

Name of Project: **Twelve Months.** *Cardiovascular Research, M.D.*

8. Facilities and Staff Available:

7. Title: **Direct writer plethysmograph machine, thermocouple and other permanent equipment are on hand or on order from other grant funds. Two medical fellows in Cardiology - one full time, one part time - available to run the comparative studies.**

3. Institution & Address:

University of Minnesota, Minneapolis, Minnesota

4. Project or Subject:

9. Additional Requirements: **None.**

System of deposit, uptake and excretion of radioactive cobalt in a cigarette 14 minutes after its removal from the smoking apparatus.

10. Additional Information (Including relation of work to other projects and other sources of supply):

5. Detailed Current investigation by colleagues under another grant is under way in an effort to establish a method of measuring vessel constriction utilizing microphotography of conjunctival vessels. When this is proven and available further opportunity will be afforded to study the effect of smoking on peripheral vessels and comparison of smoking and vasoconstrictor drugs.

Signature /s/ J. Manly Stallworth
Director of Project

J. Manly Stallworth, M.D.

1003541246

Business Officer of the Institution